

REC'D 12 JAN 2005

WIPO

PCT

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JCI011049PCT		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US03/37196	International filing date (day/month/year) 19 November 2003 (19.11.2003)	Priority date (day/month/year) 20 December 2002 (20.12.2002)	
International Patent Classification (IPC) or national classification and IPC IPC(7): B60Q 1/00, 1/26 and US Cl.: 362/492			
Applicant JOHNSON CONTROLS TECHNOLOGY COMPANY			
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>4</u> sheets.</p>			
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of report with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>			
Date of submission of the demand 16 June 2004 (16.06.2004)		Date of completion of this report 12 January 2005 (12.01.2005)	
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer <i>Ula C Ruddock</i> Ula C Ruddock Telephone No. 571-272-1481	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/37196

I. Basis of the report**1. With regard to the elements of the international application:***

- ☐ the international application as originally filed.
- ☒ the description:
pages 1-9 as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.
- ☒ the claims:
pages 10, as originally filed
pages 11-14, as amended (together with any statement) under Article 19
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.
- ☒ the drawings:
pages 1-11, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.
- ☐ the sequence listing part of the description:
pages NONE, as originally filed
pages NONE, filed with the demand
pages NONE, filed with the letter of _____.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: -

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages NONE
- ☐ the claims, Nos. NONE
- ☐ the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US03/37196

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. STATEMENT

Novelty (N)	Claims <u>1-28</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>1-28</u>	YES
	Claims <u>NONE</u>	NO
Industrial Applicability (IA)	Claims <u>1-28</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Claims 1-28 meet the requirements of PCT Articles 33(2 and 3) because the specific socket assemblies and the electrical arrangements are neither taught nor suggested in the prior art.

Claims 1-28 have industrial applicability under PCT Article 33(4) because the apparatus is usable as a visor and vanity mirror assembly in an automobile.

NEW CITATIONS

7. The assembly as defined in claim 6 wherein said cover includes a recess which surrounds the lens and allows the cover to move with respect to the frame and lens.

8. An illuminated vanity mirror assembly comprising:

5 a mirror frame adapted to receive a mirror therein, said mirror frame including a lamp for illuminating said mirror, said frame including cover receiving sockets near an edge of said frame for allowing the snap-in assembly of a cover to said frame, said frame further including at least one detent spring receiving socket;

10 a cover having first and second pivot axles for extending within said sockets, said cover including a cam aligned with said detent spring for providing snap open and closed control of said cover; and

a lens coupled to said frame for holding at least one of said cover pivot axles within said frame.

15 9. The assembly as defined in claim 8 wherein said mirror frame is molded of a polymeric material and includes an insert-molded electrical circuit including contacts adapted to engage conductors of a visor core when said vanity mirror assembly is mounted to a visor core.

20 10. The assembly as defined in claim 9 wherein said electrical circuit further defines a lamp socket for receiving a lamp.

25 11. The assembly as defined in claim 10 wherein said electrical circuit further includes a switch including a deflectable switch contact.

12. The assembly as defined in claim 11 wherein one pivot axle of said cover further includes a switch cam which selectively engages said deflectable contact for actuating said switch when said cover is in an open position to provide operating power to a lamp positioned in said lamp socket.

30 13. An electrical assembly for a visor comprising:

a housing adapted to receive an electrical component therein; wherein the improvement comprises:

5 said housing is molded of a polymeric material and includes an insert-molded electrical circuit which is coupled to an electrical component within said housing and wherein said electrical circuit includes contacts adapted to engage contacts of a visor
core when said housing is assembled to a visor core for coupling to an electrical supply available in said core to said electrical component.

10 14. The assembly as defined in claim 13 wherein said housing is an illuminated vanity mirror frame and said electrical component is a lamp.

15 15. The assembly as defined in claim 14 and further including a cover pivotally mounted to said mirror frame and wherein circuit further includes a switch including a deflectable element engaged by said cover for actuating said switch when said cover is in an open position to provide operating power to said lamp.

16. A visor and vanity mirror assembly comprising:

a visor body having at least one electrical conductor for coupling to a vehicle electrical system; and

20 a mirror frame adapted to receive a mirror therein, wherein said mirror frame is molded of a polymeric material and includes an insert-molded electrical circuit which is coupled to an electrical component within said mirror frame and wherein said electrical circuit includes at least one contact adapted to engage said conductor of said visor body when said frame is assembled to said visor body for coupling an electrical supply
25 available in said body to said electrical component.

30 17. The assembly as defined in claim 16 wherein said visor body includes at least one conductor holding ledge for positioning an insulated electrical conductor having a stripped end exposing the conductor in a position to be engaged by said contact of said electrical circuit.

18. The assembly as defined in claim 17 wherein said visor body includes a first ledge including a hook for holding said conductor to said visor body and a second ledge

including a notch for receiving and holding a stripped end of said conductor in a fixed position.

5 19. The assembly as defined in claim 18 wherein said contact of said electrical circuit includes a pair of spaced-apart spring loaded walls which extend over said second ledge of said visor body and compressibly engage said stripped end of said conductor held in said notch to make an electrical contact with said conductor when said frame is mounted to said visor body.

10 20. The assembly as defined in claim 19 wherein one of said walls of said contact includes a slot for surrounding said conductor when said frame is mounted to said visor body.

15 21. The assembly as defined in claim 20 wherein said electrical circuit is made of stainless steel.

22. The assembly as defined in claim 21 wherein said frame includes locking tabs and said visor body includes slots for securing said frame to said visor body.

20 23. The assembly as defined in claim 22 wherein said electrical component is a lamp for illuminating said mirror.

25 24. The assembly as defined in claim 23 and further including a cover pivotally mounted to said mirror frame and wherein circuit further includes a switch including a movable contact engaged by said cover for actuating said switch when said cover is in an open position to provide operating power to said lamp.

30 25. The assembly as defined in claim 24 wherein said mirror frame includes an enclosed cylindrical socket and an open semi cylindrical socket longitudinally spaced from said closed socket, said frame further including at least one detent spring receiving socket; and wherein said cover includes a first pivot axle extending within said closed

cylindrical socket and a second pivot axle snap-fitted within said semi cylindrical socket, said cover including a cam associated with said cover; and

5 a detent spring positioned within said detent spring receiving socket of said mirror frame and extending between said mirror frame and engaging an associated cam of said cover for providing snap open and close control of said cover.

26. The assembly as defined in claim 25 and further including a lens coupled to said frame for holding said second pivot axle within said semi cylindrical socket.

10 27. A visor and vanity mirror assembly comprising:

a visor body;

a mirror frame adapted to receive a mirror therein, said mirror frame including a lamp for illuminating said mirror and cover receiving sockets near an edge of said frame for allowing the snap-in assembly of a cover to said frame;

15 a cover having first and second pivot axles for extending within said sockets; and
a lens coupled to said frame for holding at least one of said cover pivot axles within said frame.

20 28. The assembly as defined in claim 27 wherein said sockets of said mirror frame include an enclosed cylindrical socket and an open semi cylindrical socket longitudinally spaced from said closed socket, and wherein said cover includes a first pivot axle extending within said closed cylindrical socket and a second pivot axle snap-fitted within said semi cylindrical socket; and said lens holds said second pivot axle in said semi cylindrical socket.

25 29. The assembly as defined in claim 28 wherein said mirror frame is molded of a polymeric material and includes an insert-molded electrical circuit including contacts adapted to engage contacts of said visor body when said vanity mirror assembly is mounted to said visor body.